This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

B3

(19) PATENT OFFICE JAPANESE GOVERNMENT

(11) Publication number: **07201587**

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: **05351952**

(22) Application date: **28.12.93**

(51) Intl. Cl.: **H01F 19/04 H01F 19/00**

(30) Priority:

(43) Date of application publication: **04.08.95**

(84) Designated contracting states:

(71) Applicant: **HITACHI FERRITE DENSH KK**

(72) Inventor: **ITO TORU**
MIKI HIROHIKO

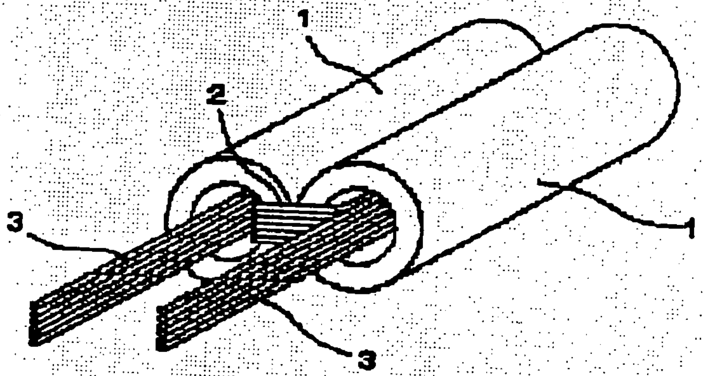
(74) Representative:

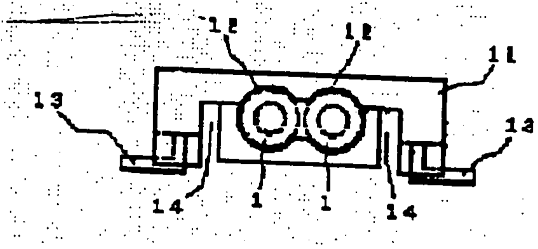
(54) PULSE TRANSFORMER FOR ISDN

(57) Abstract:

PURPOSE: To provide a pulse transformer which satisfies the height requirement and the requested characteristics and which can be manufactured easily by locating parallelly two pipe-like magnetic cores which are made by winding a Co-base amorphous ribbon in the specific thickness or below and by applying a winding which passes through two through holes around the facing side faces of the magnetic cores.

CONSTITUTION: Using a Co-base amorphous ribbon (thinner than 15&mu;m), magnetic cores are manufactured. Then, the magnetic cores 1 are heat-treated in a nitrogen atmosphere. Six parallel wires are wound (2) eight turns using a wire rod 3 and a pulse transformer of 16 turns at the primary side and 32 turns at the secondary side is manufactured.





Out of the six parallel wires, two wires are connected in series to make a 16-turn winding and four wires are connected in series to make a 32-turn winding. A pulse transformer for ISDN is manufactured by installing the pipe-like magnetic cores in through holes 12 of a case 11. For preliminary preparations, a wire rod 3 which constitutes the primary coil is colored. By this method, a pulse transformer which satisfies the characteristics of a pulse transformer for ISDN and which can be made thin and can be manufactured easily can be provided.

COPYRIGHT: (C)1995,JPO